

REMARKS

Status of the Application

Claims 1 and 2 were previously pending. Claims 1 and 2 were rejected under 35 USC 102(b) as being anticipated by Suzuki or Hughes. The title of invention was objected to.

Applicant has amended claim 1, canceled claim 2, and added new claims 3-6. No new matter adds through the amendments. For the reasons discussed below, withdrawal of the rejections/objections is requested.

Specification Objection

The specification was objected to because the title of invention is not descriptive. Applicant has changed the title of invention into "SCREW WITH DIFFERENT THREADS".

It is believed that the new title is descriptive. Withdrawal of the objection is requested.

Claim Rejections- 35 U.S.C. 102(b)

Claims 1 and 2 were rejected under 35 USC 102(b) as being anticipated by Suzuki (US 5,358,366) or Hughes (5,273,383).

Applicant respectfully traverses the rejection for reasons discussed below. Nevertheless, Applicant has amended claim 1 to more clearly define the present invention. Claim 2 has been replaced by new claim 5.

The amended claim 1 reads:

1. A screw comprising:
a head provided with a central recess, said head and said central recess having any shape to suit to various tools; and
a shank having a proper length and screwing threads and cutting threads, said screwing threads and said cutting threads respectively **having different guiding angles** from each other and **both threads having the same helical direction** and extending upward from a lower cone-shaped end portion to an upper end a little lower from said head, each thread of said screwing threads and each of said cutting threads forming an angle ϕ .

The cited references at least fail to teach the above emphasized features of claim 1.

Claim 1, as amended, specifies that the screwing threads and the cutting threads have the same helical direction and different guiding angles. Suzuki teaches a screw having a main thread 2 and a sub-thread 3. Suzuki specifically requires that the sub-thread 3 be formed in the direction

opposite to the main thread 2. Col. 2, lines 63-67. Further, Suzuki is silent about the guiding angles of the main thread 2 and the sub-thread 3.

Hughes teaches a thread-forming fastener (20c) having a primary thread (26c) and one or more secondary threads (27c). Like Suzuki, Hughes specifies that "Importantly, the helix angle or pitch direction of secondary threads 27c is opposite that of primary threads 26c. That is, the two threads are "opposite handed"". Col. 8, lines 57-60.

For at least the reasons discussed above, neither Suzuki nor Hughes can anticipate claim 1. Withdrawal of the rejection is requested.

Applicant has replaced original claim 2 with new claim 5. Claim 5 recites that "said screwing thread has a first guiding angle and a first pitch, said cutting thread has a second guiding angle and a second pitch, the first guiding angle is different from the second guiding angle, and the first pitch is smaller than the second pitch".

Suzuki is silent about the guiding angle and the pitch. Hughes is silent about the pitch. Therefore, neither Suzuki nor Hughes can anticipate claim 5.

New Claims

New claims 3-6 have been added. For similar reasons discussed above, these new claims are believed patentable over the cited references.

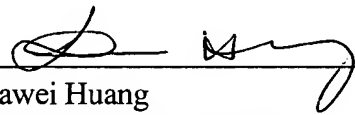
Conclusion

In view of the foregoing amendments and remarks, it is respectfully submitted that the remaining claims 1 and 3-6 are now in condition for allowance. Allowance of this application is earnestly solicited.

Date: 10/5/2005

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